# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/23/2017 09:10 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/30/2017 11:23 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124232 | -1 | 1.56 | 124040 | 1.53 |
| Blue | F | SSC | 125000 | 123445 | -2 | 2.90 | 123718 | 2.70 |
| Blue | E | FITC | 21625 | 21166 | -3 | 2.42 | 942 | 10.16 |
| Blue | D | PE | 26832 | 26380 | -2 | 1.93 | 948 | 9.49 |
| Blue | B | PerCP-Cy5-5 | 48027 | 47147 | -2 | 3.24 | 1349 | 16.52 |
| Blue | A | PE-Cy7 | 40971 | 40541 | -2 | 4.90 | 621 | 34.31 |
| Red | C | APC | 49746 | 49439 | -1 | 2.73 | 2845 | 9.18 |
| Red | A | APC-Cy7 | 53615 | 52680 | -2 | 2.76 | 1089 | 11.36 |
| Violet | B | V450 | 14488 | 13858 | -5 | 5.09 | 664 | 9.59 |
| Violet | A | V500 | 55123 | 53166 | -4 | 5.01 | 2357 | 7.13 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19152 | 4.98 | 604 | 6 | N/A | N/A | Pass |
| Blue | F | SSC | 61320 | 1.50 | 534 | 0 | N/A | N/A | Pass |
| Blue | E | FITC | 106 | 38.44 | 535 | -1 | 0.0212 | 167 | Pass |
| Blue | D | PE | 208 | 28.15 | 530 | -1 | 0.1718 | 242 | Pass |
| Blue | B | PerCP-Cy5-5 | 211 | 44.48 | 626 | -3 | 0.0107 | 115 | Pass |
| Blue | A | PE-Cy7 | 69 | 114.69 | 676 | -5 | 0.0129 | 18 | Pass |
| Red | C | APC | 335 | 26.82 | 588 | -6 | 0.0219 | 81 | Pass |
| Red | A | APC-Cy7 | 120 | 39.54 | 571 | -9 | 0.0053 | 1248 | Pass |
| Violet | B | V450 | 80 | 42.59 | 467 | -4 | 0.0455 | 1887 | Pass |
| Violet | A | V500 | 171 | 24.09 | 492 | -4 | 0.0154 | 874 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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| Input Device: | Carousel | Date: | 03/23/2017 09:10 AM |
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| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.89 | -31.37 | 0.86 |
| Blue | 20.34 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.32 |
| Red | 17.54 | 13.27 - 19.91 | N/A | N/A | 31.42 | 31.92 | 1.14 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 13739

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments